

What is claimed is:

1. A filter soil detecting device for detecting, when a filter is soiled, decrease in pressure at a secondary side of said filter
5 below normal value or increase in pressure at a primary side of said filter above normal value, said detecting device comprising:

a chamber provided in communication with a channel at the primary side or secondary side of said filter;

a lens mounted on the distal end of said chamber;

10 a diaphragm extended in said chamber in parallel with said lens;

a mark provided on the surface of said diaphragm opposite to said lens; and

a vent provided between said diaphragm and said lens,

15 said diaphragm being movable toward or away from said lens by pressure at the primary side or secondary side of said filter, varying the image of said mark seen through said lens from outside, thereby allowing the detection of degree of soiling of said filter.

20 2. A detecting device as set forth in claim 1 further comprising a connecting pipe connected to said channel in a diverging manner, in which said chamber is provided at the distal end of said connecting pipe.

25 3. A detecting device as set forth in claim 1 wherein said chamber is directly connected to said channel.

4. A detecting device as set forth in claim 1 further comprising a lens shade covering approximately half said lens.